

AMENDMENTS TO THE CLAIMS

The following listing of claim will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A lock nut (1) ~~for preventing a fastening nut (7) fastened against a bolt (6) from being loosened, the lock nut (1) comprising:~~

a nut body [(2)] having a plurality of partially circumferential grooves [(30)] formed continuously and concentrically from a each extending along a same radius, from a seat surface of the lock nut to a circumferential edge of a threaded hole, (4) of one seat surface (3)

wherein each of and a plurality of projections (5) formed in said groove (30), is disposed between each of the plurality of grooves and

wherein each projections (5) is made from the same material as that of the a nut body [(2)] and has comprises:

an arcuate outer side face [(31)] extending in a tilted manner from the border between above the seat surface, from an intersection of the seat surface [(3)] and an outer circumferential radius corresponding to each of the plurality of partially circumferential grooves and the groove (30) of said nut body (2) toward a center of the nut body,

[(2)] and an inner side face [(32)] being an extension of an inner face of said threaded hole [(4)], and

a base portion extending radially along the groove from the outer circumferential radius to the threaded hole,

wherein a depth of said groove [(30)] is made configured such that the projection (5) crushed when said nut body [(2)] is threadably engaged with the a bolt [(6)] and fastened against it by the fastening nut (7) does a head of the bolt, each of the plurality of projections is crushed and do not enter the a space between a seat surface [(8)] of said fastening nut (7) the head of the bolt and the seat surface [(3)] of said the nut body [(2)].

2. (Currently Amended) A lock nut according to claim 1, wherein an extremity of each of said projections [(5)] is formed with a claw [(11)] directed toward a center of said nut body [(2)].
3. (Previously Presented) A lock nut according to claim 1, wherein each of said projections [(5)] has a screw head [(12)] being formed on said inner side face [(32)] and threadably engaged with a threaded part of said bolt [(6)].
4. (Currently Amended) A lock nut according to claim 1, wherein said fastening nut [(7)] is connected to the side of each of said projections [(5)] of said nut body [(2)]; and wherein a height of each of said projections [(5)] is set so that a lead angle and a pitch clearance of the threaded hole [(4)] of said nut body [(2)] coincide with a lead angle and a pitch clearance of a threaded hole [(10)] of said fastening nut [(7)].
5. (Currently Amended) A lock nut according to claim 1, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.
6. (Currently Amended) A lock nut according to claim 1, wherein each of said projections [(5)] has a tapered mountain-shaped form.
7. (Currently Amended) A lock nut according to or claim 2, wherein each of said projections [(5)] has a screw head [(12)] being formed on said inner side face [(32)] and threadably engaged with a threaded part of said bolt [(6)].
8. (Currently Amended) A lock nut according to claim 2, wherein said fastening nut [(7)] is connected to the side of each of said projections [(5)] of said nut body [(2)]; and wherein a height of each of said projections [(5)] is set so that a lead angle and a pitch clearance of the threaded hole [(4)] of said nut body [(2)] coincide with a lead angle and a pitch clearance of a threaded hole [(10)] of said fastening nut [(7)].

9. (Currently Amended) A lock nut according to claim 3, wherein said fastening nut [(7)] is connected to the side of each of said projections [(5)] of said nut body [(2)]; and wherein a height of each of said projections [(5)] is set so that a lead angle and a pitch clearance of the threaded hole [(4)] of said nut body [(2)] coincide with a lead angle and a pitch clearance of a threaded hole [(10)] of said fastening nut [(7)].

10. (Currently Amended) A lock nut according to claim 7, wherein said fastening nut [(7)] is connected to the side of each of said projections [(5)] of said nut body [(2)]; and wherein a height of each of said projections [(5)] is set so that a lead angle and a pitch clearance of the threaded hole [(4)] of said nut body [(2)] coincide with a lead angle and a pitch clearance of a threaded hole [(10)] of said fastening nut [(7)].

11. (Currently Amended) A lock nut according to claim 2, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.

12. (Currently Amended) A lock nut according to claim 3, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.

13. (Currently Amended) A lock nut according to claim 4, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.

14. (Currently Amended) A lock nut according to claim 7, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.

15. (Currently Amended) A lock nut according to claim 8, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.

16. (Currently Amended) A lock nut according to claim 9, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.

17. (Currently Amended) A lock nut according to claim 10, wherein the height of each of said projections [(5)] is equal to or more than 30% of a length of said nut body [(2)] in the direction of its central axis.

18. (Currently Amended) A lock nut according to claim 2, wherein each of said projections [(5)] has a tapered mountain-shaped form.

19. (Currently Amended) A lock nut according to claim 3, wherein each of said projections [(5)] has a tapered mountain-shaped form.

20. (Currently Amended) A lock nut according to claim 4, wherein each of said projections [(5)] has a tapered mountain-shaped form.